10

15

20

CLAIMS:

1. A data cable having a plurality of insulated signal transmission conductors, and an interior support, said interior support comprising:

a cylindrical longitudinally extending central portion;

a plurality of splines radially extending from said central portion along the length of said central portion, said splines having a triangular cross-section with the base of the triangle forming part of the central portion, each of said triangular splines having the same radius;

each spline of said plurality of splines being of splines adjacent to two other splines of said plurality;

a shield having a lateral fold, said shield supported by said triangular splines, said shield and splines defining a plurality of at least four conductor compartments;

a signal transmission conductor from said plurality of signal transmission conductors disposed in each of said compartments

2. A signal transmission cable comprising:

an interior support extending along a longitudinal length of the cable, said interior support

10

15

20

25

having a central region, said central region extending along a longitudinal length of said interior support;

a plurality of prongs, each of said prongs forming a part of said interior support, said prongs extending along a longitudinal length of the central region and extending outward from said central region;

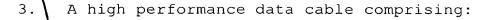
an arrangement of said plurality of prongs wherein each of said prongs is adjacent with at least two other of said prongs, said arrangement forming a plurality of pairs of adjacent prongs;

a groove defined by each of said pairs of adjacent prongs, said groove extends along the longitudinal length of the interior support, said plurality of pairs of adjacent prongs defining a plurality of said grooves;

in said plurality of prongs, each of said prongs having a first and second lateral side, a portion of said first lateral side and a portion of said second lateral side of at least one of said prongs converging towards each other;

a plurality of conductor compartments, each of said conductor compartments defined by a pair of said plurality of pairs of adjacent prongs and a foil shield having a lateral fold;

an insulated conductor in each of said plurality of conductor compartments.



an interior support extending along a longitudinal length of the data cable, said interior support having a central region, said central region extending a long a longitudinal length of said interior support;

a plurality of prongs, each of said prongs forming a part of said interior support, said prongs extending along a longitudinal length of the central region and extending outward from said central region;

an arrangement of said plurality of prongs wherein each of said prongs is adjacent with at least two other prongs, said arrangement forming a plurality of pairs of adjacent prongs;

a groove defined by each of said pairs of adjacent prongs, said groove extends along the longitudinal length of the interior support, said plurality of pairs of adjacent prongs defining a plurality of said grooves;

a plurality of conductor compartments, each of said conductor compartments defined by a pair of said plurality of pairs of adjacent prongs and a foil shield having a lateral fold;

an insulated conductor in each of said conductor compartments, wherein said insulated conductor is selected from the group consisting of a twisted pair conductor and a single conductor.

-19-

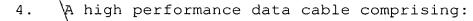
10

5

15

20

25



an interior support extending along a longitudinal length of the data cable, a first material forming part of said interior support, a second material forming a part of said interior support, said first material different from said second material;

a central region forming part of said interior support, said central region extending along a longitudinal length of said interior support;

a plurality of prongs, each of said prongs forming a part of said interior support, said prongs extending along a longitudinal length of the central region and extending outward from said central region;

an arrangement of said plurality of prongs wherein each of said prongs is adjacent with at least two other prongs, said arrangement forming a plurality of pairs of adjacent prongs;

a groove defined by each of said pairs of adjacent prongs, said groove extends along the longitudinal length of the interior support, said plurality of pairs of adjacent prongs defining a plurality of said grooves;

an insulated conductor in each of said grooves, wherein

said second material has an outer surface, said outer surface forms at least a portion of said plurality of

-20-

10

5

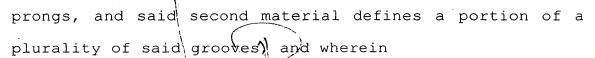
15

20

25

15

20



said second material provides means for shielding.

5 The cable of claim 1, wherein said interior support comprises:

a first material and a second material different from said first material, wherein

said second material has an outer surface, said outer surface forms at least a portion of an outer surface of a plurality of said triangular splines, and wherein;

said second material provides means for shielding.

6. The cable of claim 2, wherein said interior support comprises:

a first material and a second material different from said first material, wherein

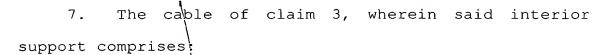
said second material has an outer surface, said outer surface forms at least a portion of an outer surface of a plurality of said prongs, and wherein

said second material provides means for shielding.

-21-

10

15



a first material and a second material different from said first material, wherein

said second material has an outer surface, said outer surface forms at least a portion of an outer surface of a plurality of said prongs, and wherein

said second material provides means for shielding.

38. The cable of claim 8, wherein said second material is a foil shield

- 9. The cable of claim 6, wherein said second material is a foil shield.
- 10. The cable of claim 1, wherein said second material is a foil shield.

Odd odd

-22-